

Patent claims

1. An insulating material piece (1) for an electrical high-voltage device, in particular for a high-voltage power breaker, the insulating material piece (1) having at least one subvolume (3) which is treated so as to change its conductivity, characterized in that  
the insulating material piece at least partially comprises a mixture of treated subvolumes (3) and untreated subvolumes (4).
2. The insulating material piece (1) as claimed in claim 1, characterized in that  
the mixture lies at least partially on the surface of the insulating material piece (1).
3. The insulating material piece (1) as claimed in claim 1 or 2, characterized in that  
the treated subvolumes (3) are embedded in the untreated subvolumes (4).
4. The insulating material piece (1) as claimed in one of claims 1 to 3, characterized in that  
the subvolumes (3, 4) are made of PTFE.
5. A method for producing an insulating material piece (1) for an electrical high-voltage device, in particular a high-voltage power breaker, the insulating material piece (1) having at least one subvolume (3) which is treated so as to change its conductivity, characterized in that

treated subvolumes (3) are mixed with untreated subvolumes (4), and the mixture (3, 4) is shaped so as to produce an insulating material piece (1).

6. The method as claimed in claim 5,  
characterized in that  
the mixture (3, 4) is sintered.